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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO
09/619,672	07/19/2000	Takafumi Hoshizawa	0557-4983-2	2151
22850	7590 06/22/2004		EXAMINER	
· · · · · · · · · · · · · · · · · · ·	PIVAK, MCCLELLAN	THEIN, MARIA TERESA T		
1940 DUKE STREET ALEXANDRIA, VA 22314			ART UNIT	PAPER NUMBER
			3625	

DATE MAILED: 06/22/2004

Please find below and/or attached an Office communication concerning this application or proceeding.

		a				
·,	Application No.	Applicant(s)				
•	09/619,672	HOSHIZAWA ET AL.				
Office Action Summary	Examiner	Art Unit				
	Marissa Thein	3625 MU				
The MAILING DATE of this communication appeariod for Reply	pears on the cover sheet with the o	orrespondence address				
A SHORTENED STATUTORY PERIOD FOR REPL THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.1 after SIX (6) MONTHS from the mailing date of this communication. If the period for reply specified above is less than thirty (30) days, a repl If NO period for reply is specified above, the maximum statutory period Failure to reply within the set or extended period for reply will, by statute Any reply received by the Office later than three months after the mailin earned patent term adjustment. See 37 CFR 1.704(b).	36(a). In no event, however, may a reply be tir y within the statutory minimum of thirty (30) day will apply and will expire SIX (6) MONTHS from a, cause the application to become ABANDONE	mely filed ys will be considered timely. the mailing date of this communication. ED (35 U.S.C. § 133).				
Status						
1) Responsive to communication(s) filed on 12 F	ebruary 2004.					
This action is FINAL . 2b) This action is non-final.						
3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is						
closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.						
Disposition of Claims						
4)	wn from consideration. e rejected.					
Application Papers						
9)☐ The specification is objected to by the Examiner.						
10) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner.						
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).						
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d). 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.						
,_						
Priority under 35 U.S.C. § 119						
 12) Acknowledgment is made of a claim for foreign a) All b) Some * c) None of: 1. Certified copies of the priority document 2. Certified copies of the priority document 3. Copies of the certified copies of the priority application from the International Bureatten attached detailed Office action for a list 	ts have been received. Its have been received in Applicate Inity documents have been received in the control of the control	ion No ed in this National Stage				
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Attachment(s)	-					
Notice of References Cited (PTO-892) Notice of Draftsperson's Patent Drawing Review (PTO-948)	4) Interview Summary Paper No(s)/Mail D					
Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08 Paper No(s)/Mail Date		Patent Application (PTO-152)				

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DETAILED ACTION

Response to Amendment

Applicants' "Amendment" filed on February 12, 2004 has been considered.

Claims 11 and 24-26 are amended. Claims 1, 6, 8, 10-15, 17, 20, 21, and 23-26 remain pending in this application.

Response to Arguments

Applicant's arguments with respect to claims 1, 6, 8, 10-15, 17, 20, 21, and 23-26 have been considered but are most in view of the new ground(s) of rejection.

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 1, 6, 8, 10-15, 17, 20-21, and 23-26 are rejected under 35 U.S.C. 103(a) as being unpatentable over U.S. Patent No. 5,594,529 to Yamashita et al. in view of U.S. patent No. 5,606,403 to Kikuchi et al.

Regarding claims 1, 17, and 21, Yamashita discloses a system and method comprising:

- consumable items means for storing a variety of consumable items for an image forming apparatus at a user side (see at least col. 3, lines 23-25;
- consumable item supplying means for supplying a variety of consumable items
 for the image forming apparatus to the user side upon request, the consumable

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item supplying means being connected to the consumable item means via communication means (see at least col. 3, lines 26-31;);

- a first means for detecting that a corresponding consumable item in the image forming apparatus needs replenishment (see at least col. 5, lines 19-20; col. 7, lines 55-60; col. 8, lines 62-65; col. 10, lines 5-8);
- a second means for detecting one of a type and a size of the corresponding consumable item needing replenishment in the image forming apparatus (see at least col. 8, lines 48-59; col. 9, lines 50-53; col. 10, lines 20-30);
- signal generating means for generating a signal indicating the first means has
 detected the corresponding consumable items needs replenishment (see at least
 col. 5, lines 19-20; col. 7, lines 55-60; col. 8, lines 62-65; col. 10, lines 5-8; col.
 20, lines 21-24);
- signal detecting means for detecting the signal generated by the signal generating means (see at least col. 7, lines 23-27; col. 7, lines 48-60; col. 8, lines 62-65; col. 10, lines 5-8);
- consumable items order data transmitting means for transmitting order data indication a request for the corresponding consumable item that needs to be replenished to the consumable item supplying means via the communication network (see at least col. 5, lines 30-34; col. 19, lines 1-4; col. 20, lines 50-53); and
- delivery data transmitting means included in the consumable item supplying
 means for transmitting delivery data indicating a consumable item distributing

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day and consumable item scheduled delivery day from the consumable item supplying means to the user side such that a delivery status of the corresponding consumable items to be replenished can be confirmed (see at least col. 5, lines 30-52; col. 12, lines 48-55; col. 14, lines 22-31).

However, Yamashita does not disclose counting means for counting duration of time that the detecting means detect the signal. Yamashita discloses a toner-empty signal has been received from the copying machine. A toner replenishment count which is stored in the RAM is incremented upward, and corresponding toner cartridge stock data is updated. (See col. 10, lines 33-37) A judgment is made to determine whether or not a reset signal has been received from the host computer. If a reset signal has been received from the host computer the data indicating the toner replenishment count is re-initialized and the values previously set are replaced and updated (adjustably set at the user side). (See col. 10, lines 60-67). Kikuchi, on the other hand, teaches count means for counting duration of time that the detecting means detect the signal (see at least abstract; col. 3, lines 13-26; col. 4, lines 25-39).

It would have been obvious to one of ordinary skill in the art at the time of the invention was made to modify the system and method of Yamashita, to include the counting means to count the duration of time period that detects the signal, as taught by Kikuchi, in order to avoid the stoppage and prohibition of printing operation caused by the shortage of a consumable item so that printing efficiency can be enhanced (Kikuchi col. 3, lines 27-31).

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Regarding claims 6, 8, 11-15, 20, and 23, Yamashita discloses a data receiving device configured to receive the order data transmitted from the order data transmitting device (see at least col. 5, lines 30-34; col. 19, lines 1-4; col. 20, lines 50-53); the delivery data includes information corresponding to a day when distribution of the corresponding consumable item is started by the consumable item supplying section and a day when the corresponding consumable item is scheduled to be delivered to the user side (see at least col. 5, lines 30-52; col. 12, lines 48-55; col. 14, lines 22-31); the consumable item system is employable regardless of a model and manufacturer of the image forming apparatus (see at least col. 12, lines 56-65); the order data is reset when the signal disappears (see at least col. 10, lines 60-67; col. 12, lines 29-38); the consumable item data transmitting device is disposed at the user side (see at least col. 2, line 60 - col. 3, line 5; col. 7, line 34- col. 8, line 14; Figure 1; col. 4, lines 1-8); the data receiving device is disposed at the consumable item supply section (see at least col. 2, line 60 – col. 3, line 5; col. 7, line 34- col. 8, line 14; Figure 1; col. 4, lines 1-8); and a display at the user side on which the delivery data is displayed (see at least col. 13, lines 56-59; col. 19, lines 1-18; col. 23, lines 4-21).

Regarding claim 10, Yamashita discloses electronic communication means such as a modem (col. 2, lines 36-39); telecommunication link, a network link or other similar electronic communication line or link (col. 6, line 67 – col. 7, line 2), but fails to identify such communication as "wireless". The Examiner notes that "modems" and telecommunication are known to be wireless.

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It would have been obvious to one of ordinary skill in the art at the time the invention was made to have provided the systems and methods disclosed by Yamashita to have included a wireless communication. The skilled artisan would have been motivated to do so in order to have provided a mobile communication that simplifies installation of the system and reduces the installation cost.

Regarding claims 24-26, Yamashita discloses a system and method comprising:

- consumable items means for storing a variety of consumable items for an image forming apparatus at a user side (see at least col. 3, lines 23-25;
- consumable item supplying means for supplying a variety of consumable items
 for the image forming apparatus to the user side upon request, the consumable
 item supplying means being connected to the consumable item mans via
 communication means (see at least col. 3, lines 26-31);
- a first means for detecting that a corresponding consumable item in the image forming apparatus needs replenishment (see at least col. 5, lines 19-20; col. 7, lines 55-60; col. 8, lines 62-65; col. 10, lines 5-8);
- signal generating means for generating a signal indicating the first means has
 detected the corresponding consumable items needs replenishment (see at least
 col. 5, lines 19-20; col. 7, lines 55-60; col. 8, lines 62-65; col. 10, lines 5-8; col.
 20, lines 21-24);
- signal detecting means for detecting the signal generated by the signal generating means (see at least col. 7, lines 23-27; col. 7, lines 48-60; col. 8, lines 62-65; col. 10, lines 5-8);

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consumable items order data transmitting means for transmitting order data indication a request for the corresponding consumable item that needs to be replenished to the consumable item supplying means via the communication network (see at least col. 5, lines 30-34; col. 19, lines 1-4; col. 20, lines 50-53);

- delivery data transmitting means included in the consumable item supplying means for transmitting delivery data indicating a consumable item distributing day and consumable item scheduled delivery day from the consumable item supplying means to the user side such that a delivery status of the corresponding consumable items to be replenished can be confirmed (see at least col. 5, lines 30-52; col. 12, lines 48-55; col. 14, lines 22-31); and
- display means for displaying the delivery data at the user side (see at least col.
 13, lines 56-59; col. 19, lines 1-18; col. 23, lines 4-21).

However, Yamashita does not disclose counting means for counting duration of time that the detecting means detect the signal. Yamashita discloses a toner-empty signal has been received from the copying machine. A toner replenishment count which is stored in the RAM is incremented upward, and corresponding toner cartridge stock data is updated. (See col. 10, lines 33-37) A judgment is made to determine whether or not a reset signal has been received from the host computer. If a reset signal has been received from the data indicating the toner replenishment count is re-initialized and the values previously set are replaced and updated (adjustably set at the user side). (See col. 10, lines 60-67). Kikuchi, on the other hand, teaches count means for counting duration of time that the detecting means detect the signal

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(see at least abstract; col. 3, lines 13-26; col. 4, lines 25-39).

It would have been obvious to one of ordinary skill in the art at the time of the invention was made to modify the system and method of Yamashita, to include the counting means to count the duration of time period that detects the signal, as taught by Kikuchi, in order to avoid the stoppage and prohibition of printing operation caused by the shortage of a consumable item so that printing efficiency can be enhanced (Kikuchi col. 3, lines 27-31).

Conclusion

The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

- U.S. Patent No. 5,077,582 to Kravette et al. discloses a system for monitoring a variable output paper processing device.
- U.S. Patent No. 5,335,048 to Takano et al. discloses a control system of image forming apparatus.
- U.S. Patent No. 6,333,790 to Kageyama discloses a printing system that manages the printer to copes with trouble in the printer, order consumable items and replacement parts for the printer, and update programs and data for using the printer.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Marissa Thein whose telephone number is 703-305-5246. The examiner can normally be reached on M-F 8:30-5:30.

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If attempts to reach the examiner by telephone are unsuccessful, the examiner's

supervisor, Jeffrey Smith can be reached on 703-308-3588. The fax phone number for

the organization where this application or proceeding is assigned is 703-872-9306.

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mtot

June 11, 2004

Strey A. Smith